

JUREK LORBER

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EDUCATION

University of Bonn

Bonn, Germany

Bachelor of Science in **Physics** (Current grade 1,8, around. Top 10%)

since Oct. 2022

- **German American Scholarship Foundation** (Elected spokesperson in Bonn; organized anniversary & debate formats, established mentoring program)
- **Summer Schools & seminars (selection):**
 - **Computational & Machine Learning:** "Estimators, Talkers and other (Artificial) Intelligences" (Leysin, Switzerland, 2 weeks); Simulations of Human Motor Control and Therapies (Leysin, Switzerland, 2 weeks)
 - **Biology, Neuroscience & Aging:** Nachhaltige Biotechnologie zur Bewältigung der Klimakrise (Wien, 2 Wochen); Basic on Aging Research (Valencia, 1 Woche), Zukunft der DNA (Würzburg, Wochenendseminar)

National and Kapodistrian University of Athens

Athens, Greece

Incoming: Erasmus Semester in Summer 26

Feb. 2026 – Jul. 2026

- Incoming: Course about "Contemporary Greece" from Cultural Department and other Neuroscience modules

Montessori-Gymnasium Cologne

Cologne, Germany

Abitur (876/900, best of year, student body president, exchanges in France and Poland)

Aug. 2013 – Jul. 2021

EXPERIENCE

University Hospital (**Institute for Experimental Epileptology and Cognitive Research**)

Bonn, Germany

Research Assistant & B.Sc. Thesis in **Computational Neuroscience** by Prof. Tchumatchenko

since Jan. 2025

- Developing mathematical models to describe age-related changes in the brain using high-dimensional datasets
- Participated in the [Bernstein-Conference](#) with Travel-Grant by the [Universitätsstiftung Bonn](#)

Helmholtz Institute for Radiation and Nuclear Physics

Bonn, Germany

Teaching Assistant (Tutor)

Apr. 2024 – Mar. 2025

- Designed and implemented an innovative feedback system for tutorials, increasing participation by over 50%

Rockview (strategy consulting)

Hamburg, Germany

Internship (part of B.Sc. program, grade: 1.0)

Feb. 2025 – Apr. 2025

- Developed an AI-based search method for corporate databases (LLMs)

Germanwatch e.V. (Climate-/ and Development-NGO)

Bonn, Germany

Voluntary Social Year in Political Life

Aug. 2021 – Mar. 2022

LEADERSHIP

Young European Symposium (Platform for Young Innovators and Change-Makers)

Europa

Key Organizing Team

since Sep. 2024

- Fundraised >€15,000 and recruited 100+ international participants for a new conference format

German American Conference at Harvard (largest student-led conference in the US)

Cambridge, USA

Digital Logistics & Event Organizer

Mar. 2023 – Mar. 2024

- Organized a panel on space exploration with NASA astronaut Jeffrey Hoffman

Skills

Technical & Analytical: Python (NumPy, Pandas, Matplotlib), C, Git, HTML/CSS, LaTeX; statistical analysis, data visualization, computational neuroscience (neural modeling)

Languages: German (native), English (TOEFL 109/120), French (DELFB2)